

Thomas County

Estimated Economic Contribution of Agriculture, Food, and Food Processing Sectors 6/28/2019

Using the most recent IMPLAN data available (2017) adjusted for 2019, 17 agriculture, food, and food processing sectors were analyzed to determine their overall contribution to the Thomas County economy.¹

These 17 sectors have a total direct output of approximately **\$236.8 million** and support **761 jobs** in Thomas County. Running the model for all 17 sectors simultaneously produces the following results:

Agriculture, Food, and Food Processing Sector Contribution to Overall Thomas County Economy					
Contribution Type ²	Employment	% Employment	Total Value Added ³	Total Value Added % of Gross Regional Product ⁴	Output ⁵
Direct Effect	760.7	12.42%	\$52,501,845	12.66%	\$236,802,170
Indirect Effect	260.9	4.26%	\$25,233,438	6.08%	\$45,283,510
Induced Effect	109.4	1.79%	\$7,201,017	1.74%	\$13,620,359
Total Effect	1131.0	18.47%	\$84,936,301	20.48%	\$295,706,039

As shown in the above table, agriculture, food, and food processing sectors support **1,131 jobs**, or **18.47%** of the entire workforce in the county.

Another metric used to calculate the importance of sectors in an economy is their value added as a percentage of GRP. Total value added by the 17 agriculture, food, and food processing sectors is approximately **\$84.9 million**, or **20.48% of the GRP**.

The following tables document the top industries affected by employment and output, as well as a listing of all industries that were analyzed.

¹ Article on building a contribution analysis in IMPLAN that avoids double counting:

<https://implanhelp.zendesk.com/hc/en-us/articles/115002801513-Considerations-of-Contribution-Analysis>

² Direct, indirect, and induced effects sum together to estimate the total economic contribution in the state. **Direct effects** capture the contribution from agricultural and food products. **Indirect effects** capture the economic benefit from farms and agricultural businesses purchasing inputs from supporting industries within the state. **Induced effects** capture the benefits created when employees of farms, agricultural businesses, and the supporting industries spend their wages on goods and services within the state.

³ Value added = labor income + indirect business taxes + other property type income.

⁴ GRP = final demand of households + governments expenditures + capital + exports - imports - institutional sales.

⁵ Output = intermediate inputs + value added.

In the top ten agriculture, food, and food processing sectors by employment, the beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming sector is the top employer with **336 employees**. This table also shows the amount of jobs that are created by the agriculture industry in Thomas County.

Top Ten Agriculture, Food, and Food Processing Sectors by Employment		
Sector	Total Employment	Total Output
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	336.0	\$76,378,649
Grain farming	173.0	\$109,212,303
Wholesale trade	79.7	\$17,646,084
Support activities for agriculture and forestry	78.6	\$4,603,659
Landscape and horticultural services	52.5	\$1,860,682
Real estate	51.2	\$7,267,450
Animal production, except cattle and poultry and eggs	39.8	\$6,704,095
Fluid milk manufacturing	19.3	\$13,264,547
Veterinary services	15.0	\$1,365,020
Services to buildings	14.0	\$498,512

The grain farming sector directly contributes approximately **\$109.2 million** to the Thomas County economy. The table below also shows the amount of revenue that is generated in other industries by having a strong agriculture industry.

Top Ten Agriculture, Food, and Food Processing Sectors by Output		
Sector	Total Employment	Total Output
Grain farming	173.0	\$109,212,303
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	336.0	\$76,378,649
Wholesale trade	79.7	\$17,646,084
Fluid milk manufacturing	19.3	\$13,264,547
Oilseed farming	7.0	\$11,897,552
Real estate	51.2	\$7,267,450
Animal production, except cattle and poultry and eggs	39.8	\$6,704,095
Other animal food manufacturing	4.2	\$4,981,282
Support activities for agriculture and forestry	78.6	\$4,603,659
Dairy cattle and milk production	10.7	\$3,062,465

Below is a summary of all agriculture data with employment levels and output level. These values can tell how many jobs are represented by each agriculture, food, and food processing sector and the output they contributed to the Thomas County economy.

All Agriculture, Food, and Food Processing Sectors		
Sector	Total Employment	Total Output
Oilseed farming	7.0	\$11,897,552.49
Grain farming	173.0	\$109,212,303.16
Greenhouse, nursery, and floriculture production	7.4	\$675,122.26
All other crop farming	6.1	\$786,102.71
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	336.0	\$76,378,646.85
Dairy cattle and milk production	10.7	\$3,062,465.43
Poultry and egg production	0.5	\$341,940.67
Animal production, except cattle and poultry and eggs	39.8	\$6,704,094.41
Commercial hunting and trapping	1.1	\$20,881.81
Support activities for agriculture and forestry	78.6	\$4,603,658.68
Other animal food manufacturing	4.2	\$4,981,281.76
Fluid milk manufacturing	19.3	\$13,264,547.35
Bread and bakery product, except frozen, manufacturing	7.1	\$849,175.16
Frozen cakes and other pastries manufacturing	0.4	\$67,350.74
Farm machinery and equipment manufacturing	2.0	\$731,343.81
Veterinary services	15.0	\$1,365,019.56
Landscape and horticultural services	52.5	\$1,860,682.01

All 105 counties in Kansas have an IMPLAN model and an agriculture, food, and food processing contribution summary. These values do not factor in the retail environment of food sales. Food retail is important, but in order to provide the most accurate picture of what production agricultural and processing contributes to Thomas County, the retail sector was omitted.